PHENIX WEEKLY PLANNING



2/28/2013 Don Lynch



This Week

TECHZ-CAL SUPPORT 2013

- Run 13 Continues
- Rack Room AC Control Upgrade
- No maintenance access this week
- Continue VTX strip pixel stave re-design
- Continue sPHENIX support
- Continue MPC-Ex design



Next Week

- TECHNICAL SUPPORT 2013

- Run 13 Continues
- Complete Rack Room AC Control Upgrade?
- Wednesday 1st scheduled maintenance day Wednesday 3/6
 - Remove FVTX rad monitors?
 - Close FVTX/VTX?
 - Other tasks?
- Continue VTX strip pixel stave re-design
- Continue sPHENIX support
- Continue MPC-Ex design



TECHNICAL SUPPORT 2013

Window Washer Remote Pin Removal and Winch/spooler safety upgrades







South Side pin

Limit switch

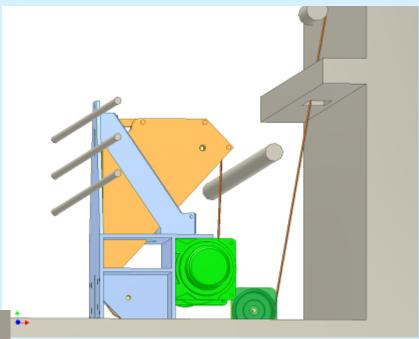


North Side pin

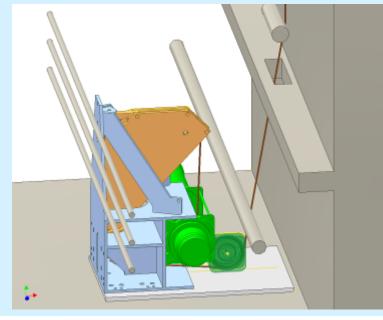
Limit switch

TECHN-CAL SUPPORT 2013

Window Washer Remote Pin Removal and Winch/spooler safety upgrades



Minimum angle from winch: Need clearance between 1 and 2 inches from wall



Maximum angle from winch: Need clearance between 1 and 4 inches from w







The two 10 ton units will have their Trane controls replaced with Automated Logic Corp. (ALC) controls.

Both units will be out of service during modification work for two weeks (in progress). Rack Room winter heat loads will be handled by the 30 ton and floor unit during this time.

Engineering work is in progress to eventually upgrade the 30 ton roof mounted unit controls and IR HVAC controls.

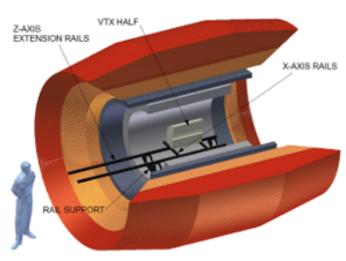


TECHNICAL SUPPORT 2013





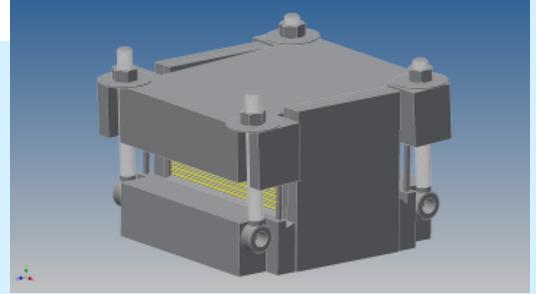
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sPHENIX Proposed Upgrade

Work continues evaluating engineering tradeoffs for EMCal and HCal design, materials, etc.

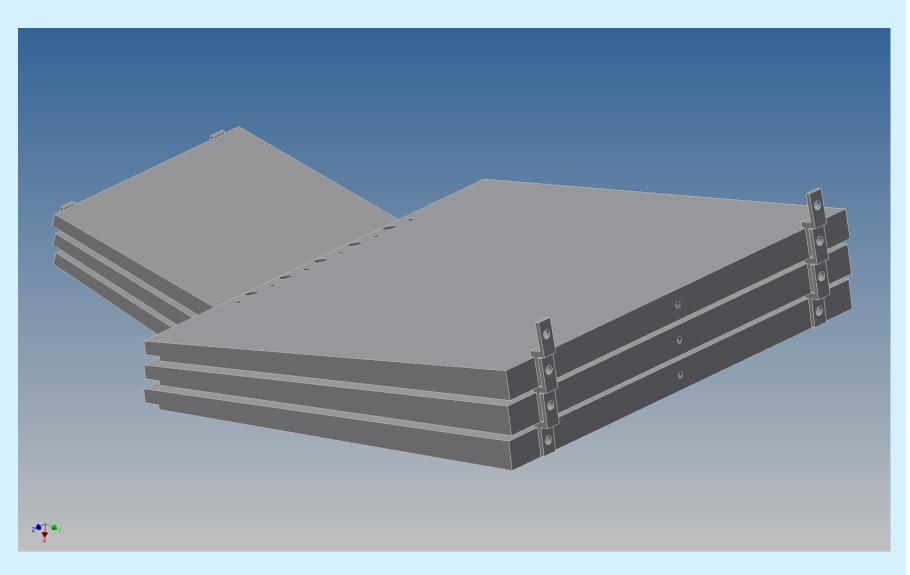
Prototype HCal and EMCal in progress



8 2/28/2013 1/31/2013

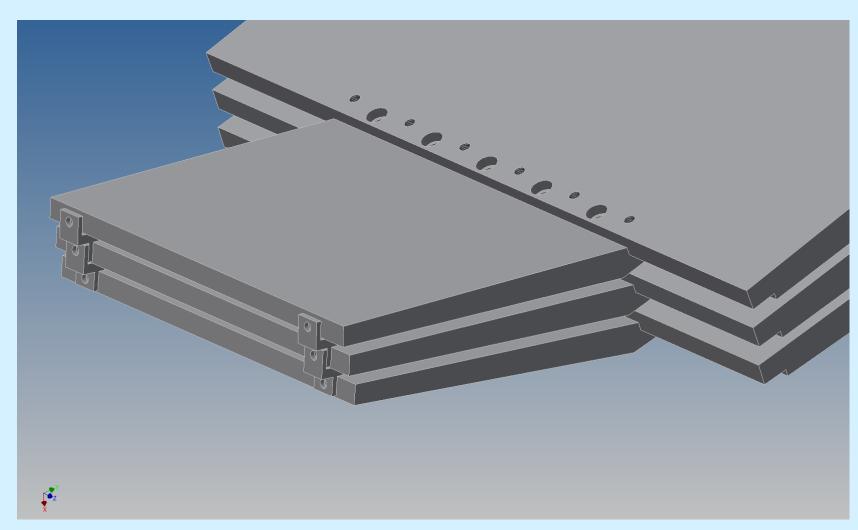


TECHNICAL SUPPORT 2013

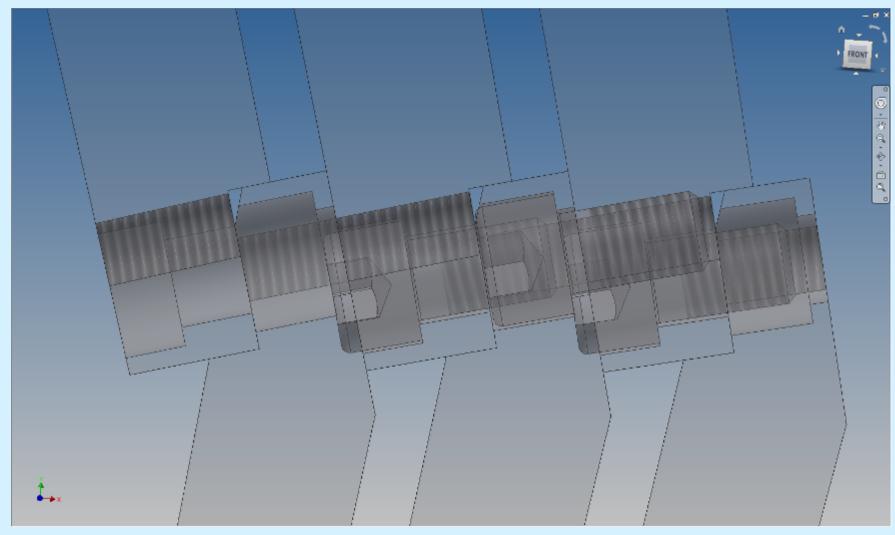


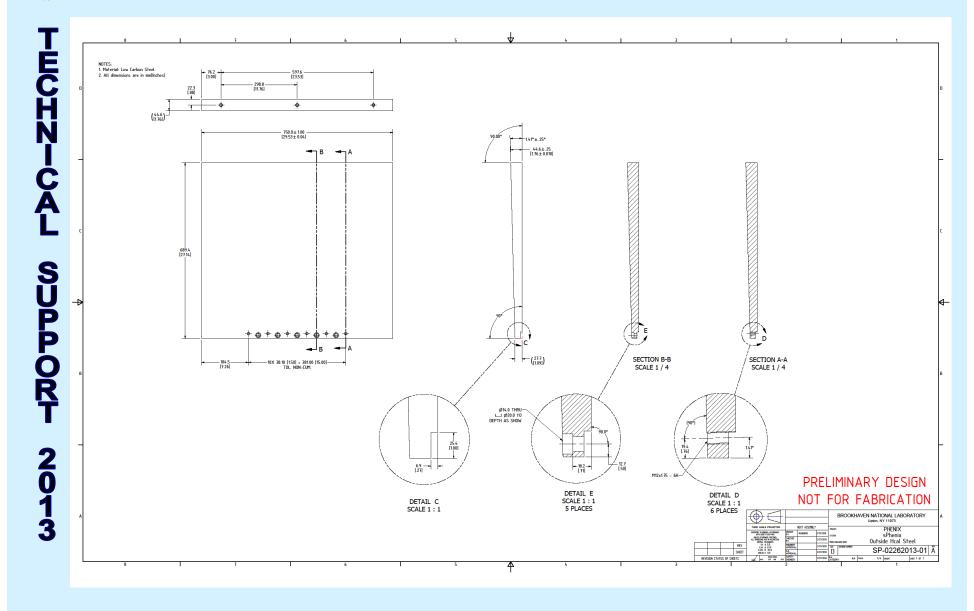


TECHN-CAL SUPPORT 2013

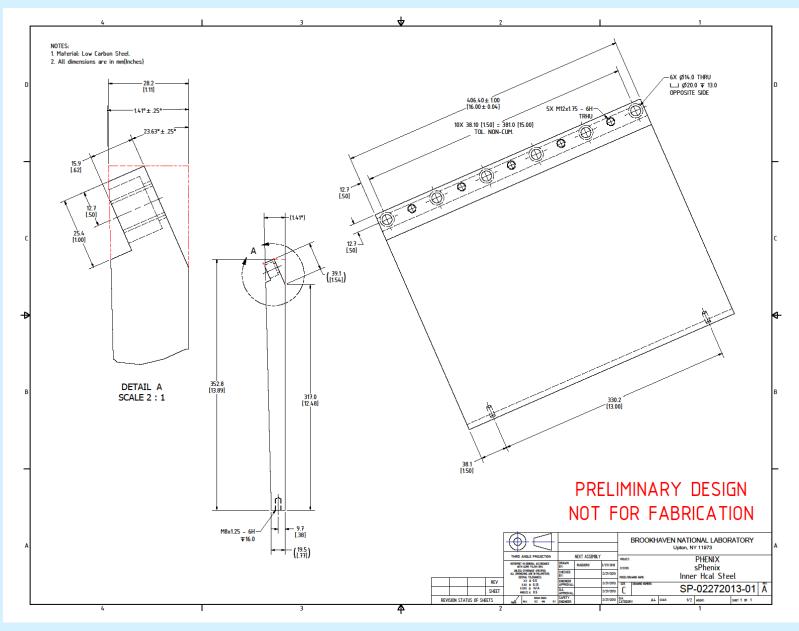


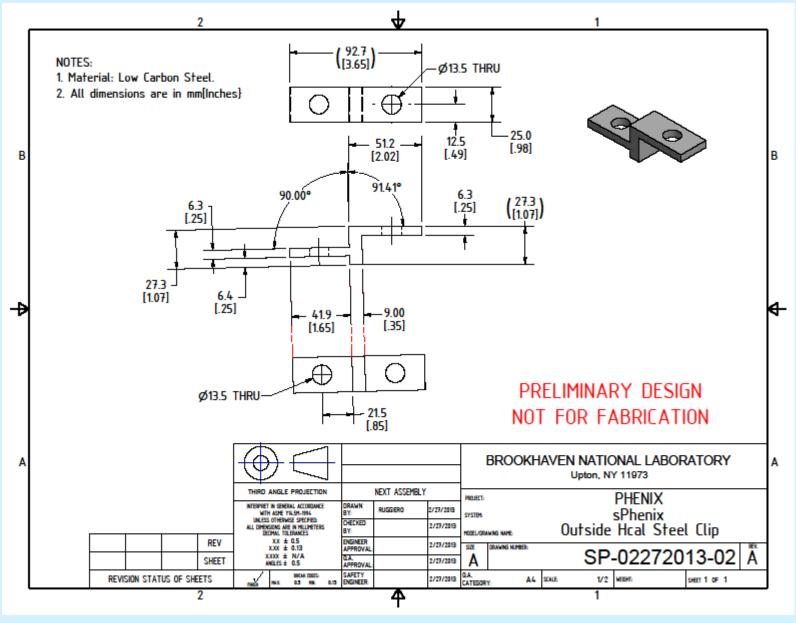
THUHZ-UAL SUPPORT 2 0 1 3

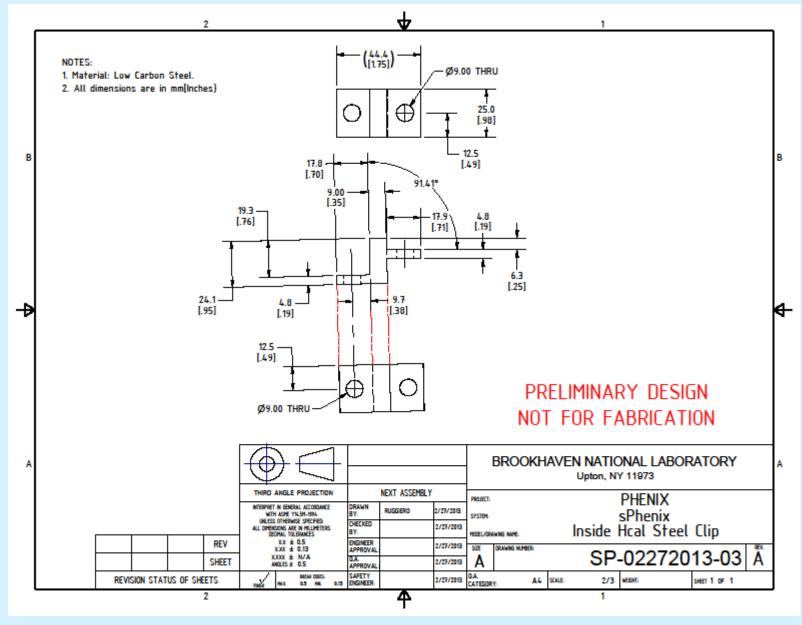


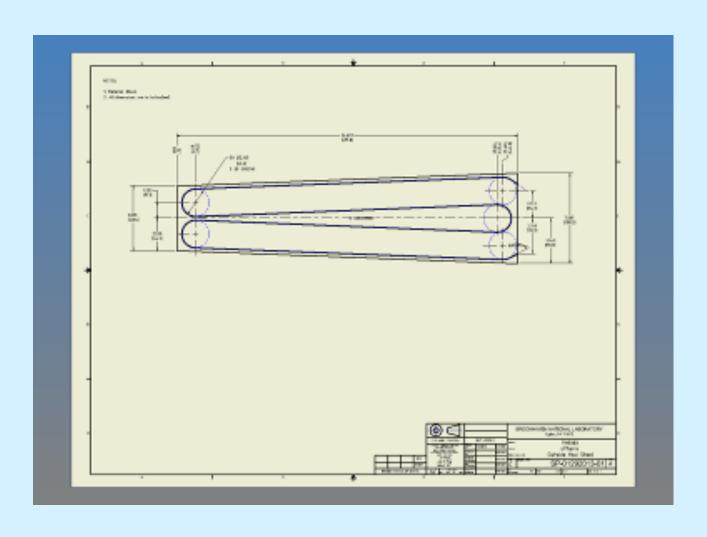


TECHN-CAL SUPPORT 2013









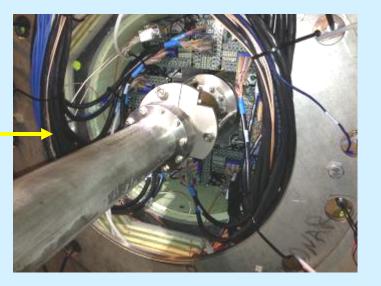


Existing vacuum bellows anti-squirm In MPC S Cavity



Proposed vacuum bellows anti-squirm In MPC S Cavity to accommodate MPC-Ex



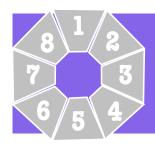


MPCS Flat cables replaced with round cables.

2/28/2013 12/12/12 D.R. Lynch 17

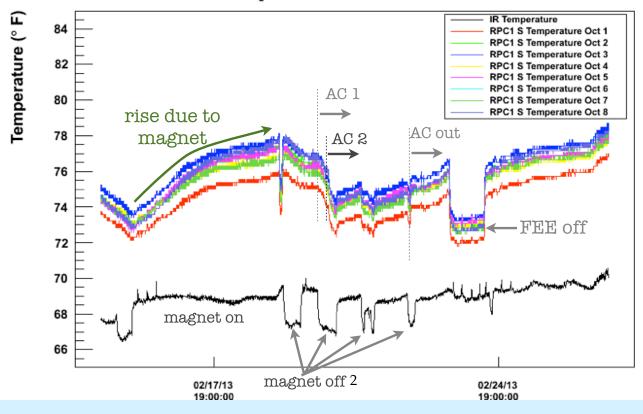
RPC1 Temperature

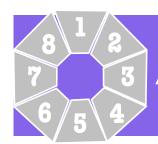
Francesca



RPC1 South

PHENIX IR Temperatures





AC units on South

2/20 (~11am and ~3pm)

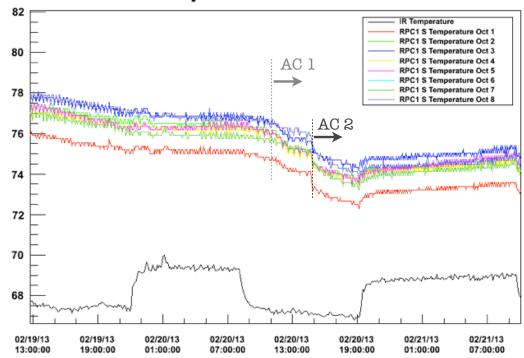
PHENIX IR Temperatures

1 AC units improved T by $^{\sim}$ 0.6-1.5 F

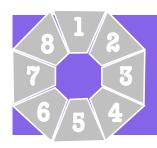
Temperature (° F)

Both AC units improved T by ~2 F

But the magnet was switch off right before the installation of the first AC unit



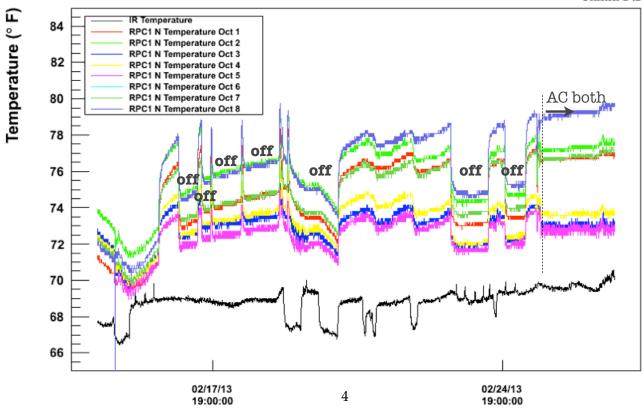
3



RPC1 North



FEE off several times



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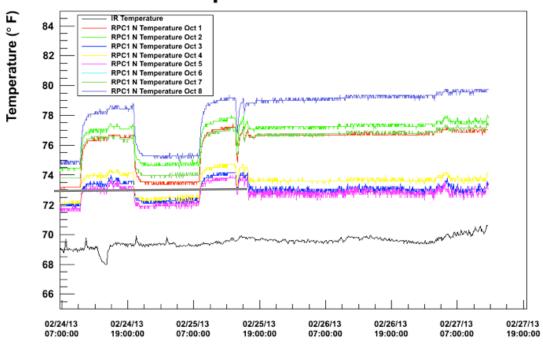


AC units on North

2/25 (~3pm)

When the magnet is on, 2 AC units improved T by $^{\sim}1$ F

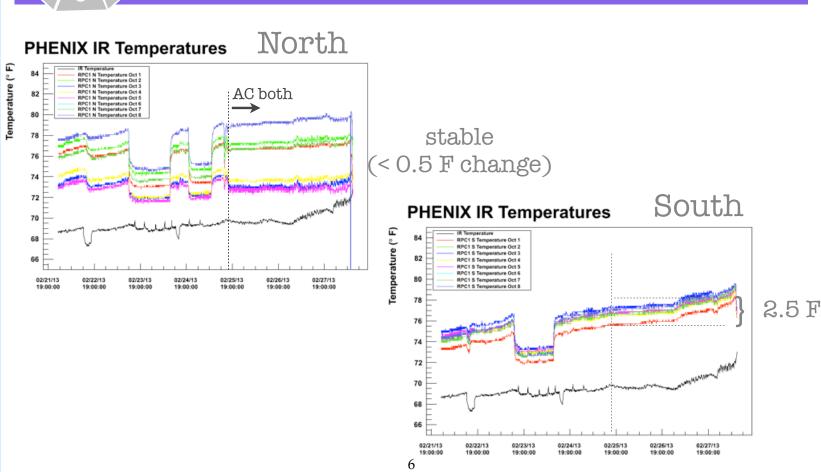
PHENIX IR Temperatures



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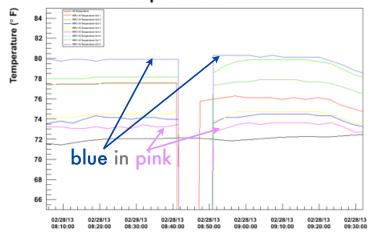
AC vs. No AC



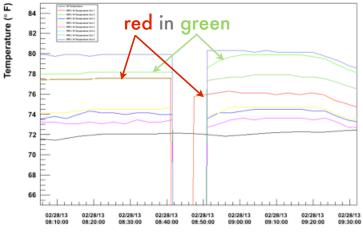


Channel swapping

PHENIX IR Temperatures



PHENIX IR Temperatures

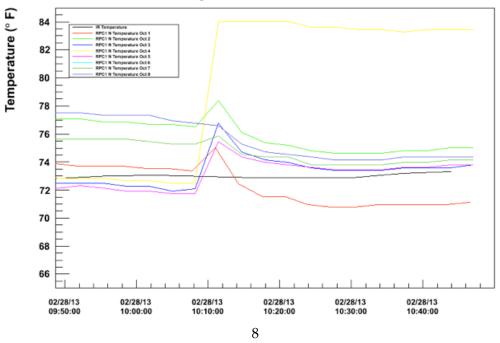


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Reading spare thermocouples

Precise thermometers give 22.6 C, the thermocouples read values in a range from 21.85 to 28.59 C.

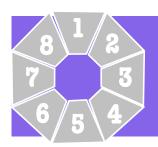
PHENIX IR Temperatures



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TECHNICAL SUPPORT 2013



Summary

- AC units help the temperature to stay stable despite the magnet being on for several days
- IR temperature increased in the last couple of days: what happened?



2013 Shutdown Schedule

TECHN-CAL	Prep for 2013 shutdown Design, Fabricate MPC-Ex Define tasks and goals Analysis and design of fixtures, tools and procedures Fabricate/procure tools and fixtures Tests, mockups, prototypes Receive, fabricate, modify, finish installables Review and approval of parts, tools, fixtures and procedures Assembly and QA tests	2/11-6/30/2013
	End of Run Party Run 12 Ends Shutdown Standard Tasks • Open wall, disassemble wall, Remove MuID Collars,	6/28/2013 6/30/2013 6/30-7/19/2013
SUPPORT 2013	• Move EC to AH, etc. Disassemble VTX/FVTX services July 4th Holiday Remove VTX/FVTX and transport to Chemistry Lab Assemble, Test and Install MPC-Ex (North only?) Summer Sunday (8/5) Prep and teardown Other detector maintenance as required Infrastructure maintenance as required TBD prototype tasks Summer Sunday (RHIC)	7/1-7/19/2013 7/4/2013 7/22/2013 7/22-10/1/2013 8/1-8/??/2013 As required As required As required 8/??/13

2/28/2013 6/14/2012 27





TECHN-CAL SUPPO

2013

Labor Day Holiday
Repair upgrade, reassemble VTX/FVTX
Test, survey (at Chemistry and IR) and re-install VTX/FVTX
Pre-run commissioning and prep for run 14
Prep for EC roll in
Roll in EC
Prep IR for run
Pink/Blue/White sheets
Start run 14

9/2/2013 7/23-10/13/2013 10/16-10/27/2013 11/1-12/31/2012 11/1-11/9/2013 11/10-11/12/2013 11/1-11/30/2013 12/14-12/31/13 1/1/2014

2/28/2013 6/14/2012 28



TECHN-CAL SUPPORT 2013

- 1. PHENIX Annual Safety Review: action items
- PHENIX to provide C-AD with a plan for continued use of the RPC factory (O'Brien, Lynch Feb 15, 2013)
- · Provide documentation on the upgraded NOVEC gas system (Pisani Feb 15, 2013)
- Provide an assessment of the new gas system software, what QA rating and proposed configuration control (Pisani Feb 15, 2013)
- 2. Performance goals due today?
- 3. From Ray Karol: A Kubota slipped on icy dirt near B1006A last week. Luckily the driver was not injured. An investigation of why the Kubota tipped over onto its side is continuing. Remember driving on ice with any vehicle should be avoided, especially with Kubota's.



TECHNICAL SUPPORT 2013

No Injury/Safety Report This week?



Where To Find PHENIX Engineering Info

Run 13 Plan:

Damn The sequestration Full Speed Ahead!



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

